

Claims

1. Watch movement in which the rotor of a generator is driven by a spring over a plurality of wheels and pinions, the operation of the generator being regulated by an electronic regulating circuit, wherein
5 said wheels and pinions are electrically grounded.
2. The watch movement of claim 1, wherein at least certain of said wheels and pinions are made of non-magnetizable material.
3. The watch movement of claim 2, wherein at least the wheel and/or the pinion that meshes into said rotor are made of non-
10 magnetizable material.
4. The watch movement of claim 3, wherein said non-magnetizable material comprises copper-beryllium (CuBe).
5. The watch movement of claim 2, wherein at least certain of said wheels and/or pinions are made of electrically well conductive
15 material.
6. The watch movement of claim 5, wherein said material is an electrically conductive oxide.
7. The watch movement of claim 5, wherein said material is gold.
8. The watch movement of claim 5, wherein said material is
20 an electrically conductive plastic.
9. The watch movement of claim 1, wherein at least one of said wheels and/or pinions are provided with a coating.
10. The watch movement of claim 9, wherein said coating is
25 electrically conductive.

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11. The watch movement of claim 9, wherein said coating is not magnetic.

12. The watch movement of claims 9, wherein said coating is not oxidable.

5 13. The watch movement of claim 9, wherein said coating has a hardness greater than 200DH.

14. The watch movement of claim 9, wherein the thickness of said coating is less than 1 μ m.

10 15. The watch movement of claim 9, wherein said coating consists of gold or a gold alloy.

16. The watch movement of claim 9, wherein said coating consists of an electrically conductive oxide.

17. The watch movement of claim 1, wherein at least one meshing is not epilamized.

15 18. The watch movement of claim 1, wherein said wheels and pinions are grounded over the meshing.

19. The watch movement of claim 1, wherein said at least one of the wheels and/or pinions are not epilamized.

20 20. The watch movement of claim 1, wherein materials for said wheels and pinions are used which possess approximately the same electrochemical potential and/or the same dielectric constant.

21. The watch movement of claim 1, wherein at least one of said wheels and pinions is grounded over the axes.

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22. The watch movement of claim 21, wherein said axes are grounded over the jewel bearings.

23. The watch movement of claim 22, wherein said jewel bearings use an electrically conductive oil.

5 24. The watch movement of claim 21, wherein said axes are grounded by means of sliding contacts.

25. The watch movement of claim 1, wherein in the watch movement an ozone-resistant oil is used.

10 26. The watch movement of claim 1, wherein a dry-film lubrication is used in the watch movement.

27. The watch movement of claim 1, wherein it was tested beforehand to check whether certain parts of the watch movement are grounded.

15 28. The watch movement of claim 1, wherein it contains bearings that protect the oil against oxidation.

29. Watch movement in which the rotor of a generator is driven by a spring over a plurality of wheels and pinions, the operation of the generator being regulated by an electronic regulating circuit, wherein at least certain of said wheels and pinions are electrically grounded, and
20 wherein at least certain of said wheels and pinions are made of non-magnetizable material.

30.29. Watch movement in which the rotor of a generator is driven by a spring over a plurality of wheels and pinions, the operation of the generator being regulated by an electronic regulating circuit, wherein
25 in the watch movement an oil is used that is ozone-resistant.

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